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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,987	11/26/2003	Leonard Ciprian Mosescu	MSFT-2835/ 306097.01	9026
41505 7590 12/13/2007 WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) CIRA CENTRE, 12TH FLOOR 2929 ARCH STREET PHILADELPHIA, PA 19104-2891			EXAMINER COLAN, GIOVANNA B	
			ART UNIT 2162	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/722,987

Applicant(s)

MOSESCU, LEONARD CIPRIAN

Examiner

Giovanna Colan

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2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 10-19, 22-32, 35 and 36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7, 10-19, 22-32, 35-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is issued in response to the Amendment filed on 10/16/2007.
2. Claims 1, 5, 13 – 19, 22 – 25, and 29 were amended. Claims 8 – 9, 20 – 21, and 32 were canceled. No claims were added.
3. This action is made Final.
4. Claims 1 – 7, 10 – 19, 22 – 32, 34 – 36 are pending in this application.

Response to Arguments

5. Applicant's arguments with respect to claims 1, 5, 13 – 19, 22 – 25, and 29 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1 – 7, 10 – 19, 22 – 32, and 34 – 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Green (US Patent App. Pub. No. 2002/0129012 A1, published: September 12, 2002), in view of Beach et al. (Beach hereinafter) (US

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2003/0014753 A1), and further in view of Peter J. Tsakanikas (Tsakanikas hereinafter) (US 4,427,848).

Regarding Claim 1, Green discloses a method for searching data in an electronic device comprising:

storing a plurality of first character strings and corresponding second character strings (Page 1, [0005], lines 4 – 7, Green¹);

receiving a query (Page 2, [0024], lines 7 – 10, Green); and

searching the stored character strings responsive to the query by receiving a character (Page 1, [0005], lines 1 – 4, Green), appending said character to previously received characters if any (Page 6, [0050], lines 14 – 17, Green²), performing a prefix search of received characters on the stored second character strings (Page 3, [0032], lines 8 – 11, Green), and returning a set of first character strings stored with the second character strings that match the prefix search (Page 3, [0032], lines 8 – 19, Green),

wherein receiving the character comprises receiving input from an input device (Page 2 and 4, [0024] and [0036], lines 7 – 10 and 22 – 25, the computer 12; respectively, Green), and

determining the character from a set of characters that corresponds to the received input (Page 2, [0026], lines 4 – 10, word number sets are generated for each term in the query, Green).

¹ Wherein the words correspond to the first character string claimed; and the identifying number corresponds to the second character strings claimed.

² Wherein the step of including and adding corresponds to the step of appending as claimed.

Green also discloses: the input device, and unique subset of an alphabet (Page 2, [0026], lines 1 – 10, “and associates each word with a unique identifying number...The word number sets are ultimately passed to a document retrieving module 38 that accesses a document look-up table 28, stored with lexicon 22 on disk 18, whose function is to relate word numbers to documents containing the associated words”, Green). However, Green does not explicitly disclose that the input device comprises a keypad. On the other hand, Beach discloses that: the input device comprises a keypad (Page 1, [0009], lines 5 – 10, Beach).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Beach’s teachings to the system Green. Skilled artisan would have been motivated to do so, as suggested by Beach (Page 1, [0009], lines 9 – 13, Beach), to provide a type-ahead feature, so that search terms may be rapidly located in the appropriate index simply by entering one or more of the leading characters of the search terms. In addition, both of the references (Green and Beach) teach features that are directed to analogous art and they are directed to the same field of endeavor, such as, databases management systems, prefix search, and matching. This close relation between both of the references highly suggests an expectation of success.

The combination of Green in view of Beach (Green/Beach hereinafter) discloses all the limitations discussed above. However, Green/Beach does not explicitly disclose that such input device comprises a keypad having at least one alphanumeric key associated with a unique number and a unique subset of an alphabet. On the other

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hand, Taskanikas discloses input device comprises a keypad having at least one alphanumeric key associated with a unique number and a unique subset of an alphabet (Fig.1, item 12, Col. 4, lines 16 – 24, Taskanikas). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Taskanikas's teachings to the system of Green/Beach. Skilled artisan would have been motivated to do so, as suggested by Taskanikas (Col. 3, lines 15 – 19, Taskanikas), to lessen the chance of miskeying a character.

Regarding Claim 2, the combination of Green in view of Beach and further in view of Taskanikas (Green/Beach/Taskanikas) discloses a method, further comprising receiving one of the first character strings (Page 1, [0005], lines 13 – 14, in response to a search string, Green), and generating the corresponding second character string (Page 1, [0005], lines 15 – 18, set of characters from the search string, Green).

Regarding Claim 3, Green/Beach/Taskanikas discloses a method, wherein the receiving the first character string comprises:

(A) receiving an input character (Page 1 and 6, [0005] – [0050], lines 13 – 14 and 6 – 8, the bit pattern; respectively, Green);

(B) appending said input character to previously received input characters if any (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green);

(C) repeating steps (A) and (B) for each additional character received (Page 6, [0049], lines 1 – 3, Green³).

Regarding Claim 4, Green/Beach/Taskanikas discloses a method, wherein generating the second character string comprises:

mapping a first set of characters to a second set of characters (Page 4, [0034], lines 5 – 7, Green); and

building the second character string from the second set of characters using the mapping and the first character string (Page 4, [0034], lines 1 – 5, appropriate values can be selected by mapping, Green).

Regarding Claim 5, Green/Beach/Taskanikas discloses a method, wherein each of the characters in the second set of characters is a number associated with a corresponding alphanumeric key on the keypad of the input device (Page 2, [0026], lines 1 – 10, “and associates each word with a unique identifying number...The word number sets are ultimately passed to a document retrieving module 38 that accesses a document look-up table 28, stored with lexicon 22 on disk 18, whose function is to relate word numbers to documents containing the associated words”, Green; and Page 1, [0009], lines 5 – 10, Beach), and each of the characters in the first set of characters corresponds to a letter of the alphabet (Page 4, [0036], lines 18 – 22, Green).

³ Wherein the step of processing multiple words implies that the steps are repeated as claimed.

Regarding Claim 6, Green/Beach/Taskanikas discloses a method, further comprising storing the mapping as a table (Page 4, [0034], lines 7 – 10, Green).

Regarding Claim 7, Green/Beach/Taskanikas discloses a method, wherein the storing as a table comprises:

storing each of the characters in the second set of characters in a respective row in a first column of the table (Fig. 4, item 22, "1", Page 3, [0031], lines 8 – 12, Green);
and

storing an associated subset of characters of the first set of characters in a respective row in a second column of the table (Fig. 4, item 22, "and" , Page 3, [0031], lines 25 – 29, adjacent columns of the character look-up table, Green).

Regarding Claim 10, Green/Beach/Taskanikas discloses a method, further comprising repeating the steps (Page 6, [0049], lines 1 – 3, Green⁴) of appending (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green), performing a prefix search, and returning the set, in response to receiving a further character (Page 3, [0032], lines 8 – 19, Green).

Regarding Claim 11, Green/Beach/Taskanikas discloses a method, wherein returning the set of first character strings comprises displaying the set of first character strings corresponding to the second character strings that match the prefix search on a

⁴ Wherein the step of processing multiple words implies that the steps are repeated as claimed.

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display device (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

Regarding Claim 12, Green/Beach/Taskanikas discloses a method, further comprising:

receiving a first character string selection of the set of first character strings shown on the display device (Page 1, [0005], lines 4 – 7, Green⁵); and

displaying the set of character strings stored with the first character string selection on a display device (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

Regarding Claim 13, Green/Beach/Taskanikas discloses a computer-readable storage medium having stored thereon computer-executable instructions for performing a method for searching data in an electronic device comprising:

storing a plurality of first character strings and corresponding second character strings (Page 1, [0005], lines 4 – 7, Green⁶);

receiving a query (Page 2, [0024], lines 7 – 10, Green);

searching the stored character strings responsive to the query by receiving a character (Page 1, [0005], lines 1 – 4, Green), appending said character to previously received characters if any (Page 6, [0050], lines 14 – 17, Green⁷), performing a prefix

⁵ Wherein the words correspond to the first character string claimed.

⁶ Wherein the words correspond to the first character string claimed; and the identifying number corresponds to the second character strings claimed.

⁷ Wherein the step of including and adding corresponds to the step of appending as claimed.

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search of received characters on the stored second character strings (Page 3, [0032], lines 8 – 11, Green), and returning a set of first character strings stored with the second character strings that match the prefix search (Page 3, [0032], lines 8 – 19, Green);

receiving the character comprises receiving input from an input device (Page 2 and 4, [0024] and [0036], lines 7 – 10 and 22 – 25, the computer 12; respectively, Green); and

determining the character from a set of characters that corresponds to the received input (Page 2, [0026], lines 4 – 10, word number sets are generated for each term in the query, Green), wherein the input device comprises a plurality of keys (Page 1, [0009], lines 5 – 10, Beach), and each key corresponds to a unique subset of an alphabet (Page 2, [0026], lines 1 – 10, “and associates each word with a unique identifying number...The word number sets are ultimately passed to a document retrieving module 38 that accesses a document look-up table 28, stored with lexicon 22 on disk 18, whose function is to relate word numbers to documents containing the associated words”, Green; and Page 4, [0051], lines 1 – 3, Beach).

Regarding Claim 14, Green/Beach/Taskanikas discloses a computer-readable medium, further comprising computer-executable instructions for receiving one of the first character strings (Page 1, [0005], lines 13 – 14, in response to a search string, Green), and generating the corresponding second character string (Page 1, [0005], lines 15 – 18, set of characters from the search string, Green).

Regarding Claim 15, Green/Beach/Taskanikas discloses a computer-readable medium, wherein the receiving the first character string comprises computer-executable instructions for:

(A) receiving an input character (Page 1 and 6, [0005] – [0050], lines 13 – 14 and 6 – 8, the bit pattern; respectively, Green);

(B) appending said input character to previously received input characters if any (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green);

(C) repeating steps (A) and (B) for each additional character received (Page 6, [0049], lines 1 – 3, Green⁸).

Regarding Claim 16, Green/Beach/Taskanikas discloses a computer-readable medium, wherein generating the second character string comprises computer-executable instructions for:

mapping from a first set of characters to a second set of characters (Page 4, [0034], lines 5 – 7, Green); and

building the second character string from the second set of characters using the mapping and the first character string (Page 4, [0034], lines 1 – 5, appropriate values can be selected by mapping, Green).

Regarding Claim 17, Green/Beach/Taskanikas discloses a computer-readable medium, wherein each of the characters in the second set of characters corresponds to

⁸ Wherein the step of processing multiple words implies that the steps are repeated as claimed.

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key on the input device (Page 2, [0026], lines 1 – 10, “and associates each word with a unique identifying number...The word number sets are ultimately passed to a document retrieving module 38 that accesses a document look-up table 28, stored with lexicon 22 on disk 18, whose function is to relate word numbers to documents containing the associated words”, Green; and Page 1, [0009], lines 5 – 10, Beach), and each of the characters in the first set of characters corresponds to a letter of an alphabet (Page 4, [0036], lines 18 – 22, Green).

Regarding Claim 18, Green/Beach/Taskanikas discloses a computer-readable medium, further comprising computer-executable instructions for storing the mapping as a table (Page 4, [0034], lines 7 – 10, Green).

Regarding Claim 19, the Green/Beach/Taskanikas discloses a computer-readable medium, wherein the storing as a table comprises computer-executable instructions for:

storing each of the characters in the second set of characters in a respective row in a first column of the table (Fig. 4, item 22, “1”, Page 3, [0031], lines 8 – 12, Green); and

storing an associated subset of characters of the first set of characters in a respective row in a second column of the table (Fig. 4, item 22, “and”, Page 3, [0031], lines 25 – 29, adjacent columns of the character look-up table, Green).

Regarding Claim 22, Green/Beach/Taskanikas discloses a computer-readable medium, further comprising computer-executable instructions for repeating the steps (Page 6, [0049], lines 1 – 3, Green⁹) of appending (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green), performing a prefix search, and returning the set, in response to receiving a further character (Page 3, [0032], lines 8 – 19, Green)

Regarding Claim 23, Green/Beach/Taskanikas discloses a computer-readable medium, wherein returning the set of character strings comprises displaying the set of first character strings corresponding to the second character strings that match the prefix search on a display device (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

Regarding Claim 24, Green/Beach/Taskanikas discloses a computer-readable medium, further comprising computer-executable instructions for:

receiving a first character string selection of the set of first character strings shown on the display device (Page 1, [0005], lines 4 – 7, Green¹⁰; and Page 1, [0018], lines 14 – 21, Beach); and

displaying the set of character strings stored with the first character string selection on a display device (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

⁹ Wherein the step of processing multiple words implies that the steps are repeated as claimed.

Regarding Claim 25, Green/Beach/Taskanikas discloses a data searching system, comprising:

a storage device for storing a plurality of first character strings and corresponding second character strings (Fig. 1, item 18, Page 2, [0024], lines 4 – 7, Green);

an input device for receiving a query (Fig. 1, item 12, Page 2, [0024], lines 4 – 7, Green);

a display device for displaying a set of character strings (Page 1, [0018], lines 14 – 21, Beach); and

a processor for searching the stored character strings responsive to the query by receiving a character (Page 7, [0055], lines 12 – 15, Green), appending said character to previously received characters if any (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green), performing a prefix search of received characters on the stored second character strings (Page 3, [0032], lines 8 – 11, Green), and providing to the display a set of character strings stored with the second character strings that match the prefix search (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach), wherein the input device comprises a plurality of keys (Page 1, [0009], lines 5 – 10, Beach), and each key corresponds to a unique subset of an alphabet (Page 2, [0026], lines 1 – 10, “and associates each word with a unique identifying number...The word number sets are ultimately passed to a document retrieving module 38 that accesses a document look-up table 28, stored with lexicon 22

¹⁰ Wherein the words correspond to the first character string claimed.

on disk 18, whose function is to relate word numbers to documents containing the associated words", Green; and Page 4, [0051], lines 1 – 3, Beach).

Regarding Claim 26, Green/Beach/Taskanikas discloses a system, wherein the processor receives the first character strings from the input device (Page 1, [0005], lines 13 – 14, in response to a search string, Green), and generates the second character strings corresponding to the first character strings (Page 1, [0005], lines 15 – 18, set of characters from the search string, Green).

Regarding Claim 27, Green/Beach/Taskanikas discloses a system, wherein the processor is adapted to receive the first character string by

(A) receiving an input character (Page 1 and 6, [0005] – [0050], lines 13 – 14 and 6 – 8, the bit pattern; respectively, Green);

(B) appending said input character to previously received input characters if any (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green); and

(C) repeating steps (A) and (B) for each additional character received (Page 6, [0049], lines 1 – 3, Green¹¹).

Regarding Claim 28, Green/Beach/Taskanikas discloses a system, wherein the processor generates the second character strings by mapping a first set of characters to

¹¹ Wherein the step of processing multiple words implies that the steps are repeated as claimed.

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a second set of characters (Page 4, [0034], lines 5 – 7, Green), and building the second character string from the second set of characters using the mapping and the first character string (Page 4, [0034], lines 1 – 5, appropriate values can be selected by mapping, Green).

Regarding Claim 29, Green/Beach/Taskanikas discloses a system, wherein each of the characters in the second set of characters corresponds to an input point on the input device (Page 2 and 4, [0024] and [0036], lines 7 – 10 and 22 – 25, the computer 12; respectively, Green), and each of the characters in the first set of characters corresponds to a letter of an alphabet (Page 4, [0036], lines 18 – 22, Green).

Regarding Claim 30, Green/Beach/Taskanikas discloses a system, wherein the storage device comprises a table for storing the mapping (Page 4, [0034], lines 7 – 10, Green).

Regarding Claim 31, Green/Beach/Taskanikas discloses a system, wherein the table comprises:

a respective row in a first column of the table for storing each of the characters in the second set of characters (Fig. 4, item 22, “1”, Page 3, [0031], lines 8 – 12, Green);
and

a respective row in a second column of the table for storing an associated subset of characters of the first set of characters (Fig. 4, item 22, "and" , Page 3, [0031], lines 25 – 29, adjacent columns of the character look-up table, Green).

Regarding Claim 32, Green/Beach/Taskanikas discloses a system, wherein the processor determines the character from a set of characters that corresponds to the received input (Page 7, [0055], lines 10 – 12, Green).

Regarding Claim 34, Green/Beach/Taskanikas discloses a system, wherein the processor repeats the steps (Page 6, [0049], lines 1 – 3, Green¹²) of appending (Page 6, [0050], lines 14 – 17, the 1 – bit is included in the converted version, Green), performing a prefix search, and returning the set, in response to receiving a further character (Page 3, [0032], lines 8 – 19, Green).

Regarding Claim 35, Green/Beach/Taskanikas discloses a system, wherein the display device displays the set of first character strings corresponding to the second character strings that match the prefix search (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

Regarding Claim 36, Green/Beach/Taskanikas discloses a system, wherein the input device receives a first character string selection of the set of first character strings

¹² Wherein the step of processing multiple words implies that the steps are repeated as claimed.

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shown on the display device (Page 1, [0005], lines 4 – 7, Green¹³; and Page 1, [0018], lines 14 – 21, Beach), and the display device displays the set of character strings stored with the first character string selection (Page 3, [0032], lines 8 – 19, Green; and Page 1, [0018], lines 14 – 21, Beach).

¹³ Wherein the words correspond to the first character string claimed.

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Prior Art Made Of Record

1. Green (US Patent App. Pub. No. 2002/0129012 A1, published: September 12, 2002) discloses a document retrieval system and search method using word set and character look-up tables.
2. Fujisaki et al. (US Patent No. 5,963,666, issued: October 5, 1999) discloses a confusion matrix mediated word prediction.
3. Luk et al. (US Patent App. Pub. No. 2003/0187856 A1, filed: April 1, 2002) discloses a database and method for storing a searchable set of keywords.
4. Beach et al. (US 2003/0014753 A1).
5. Peter J. Tsakanikas (US 4,427,848).

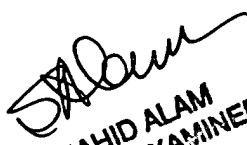
Points Of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna Colan whose telephone number is (571) 272-2752. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Giovanna Colan
Examiner
Art Unit 2162
November 29, 2007


SHAHID ALAM
PRIMARY EXAMINER